**Claim Amendments**

3. Please cancel, without prejudice, claims 1-10. Please also enter new claims numbered 11-20. The complete listing of all claims in the application after amendment is:

Claims 1-10 (canceled)

Claim 11 (new):

A router sub-base comprising:

i. a pad of material having an upper face and a lower face, and substantially vertical edges, including a substantially vertical front edge and a substantially vertical back edge, the pad upper and lower faces are substantially flat and smooth, the pad upper face is substantially parallel to the pad lower face, the vertical edges are substantially perpendicular to the pad upper and lower faces,

ii. the pad is narrower at the front edge than at the back edge,

iii. the pad is of substantially uniform thickness, and large enough to cover substantially the entire lower surface of a router base to which the pad may be attached, except the area of the lower surface of the router base forward of the vertical front edge when the pad is so attached, and

iv. means for attaching the pad to the router base, whereby the pad will cover substantially the entire lower surface of a router base to which the pad may be attached, except the area of the lower surface of the router base near a bit fitted to the router when the pad is so attached.

Claim 12 (new):

The router sub-base of claim 11 in which the front edge of the pad presents a substantially flat, substantially vertical surface toward a router collet when the sub-base is attached to the router base.

Claim 13 (new):

The router sub-base of claim 11, further comprising a channel formed in the lower face of the pad, the channel extending across the lower surface of the sub-base from the vertical front edge to the vertical back edge.

Claim 14 (new):

The router sub-base of claim 13, in which the channel is deep enough and wide enough to allow the end of a dowel projecting from a workpiece to move through the channel without restricting movement of the pad after the top of the dowel is cut by the bit of a router to which the pad may be attached.

Claim 15 (new):

The router sub-base of claim 12, shaped to extend over substantially the entire lower surface of the base of any offset router having a base of currently standard dimensions.

Claim 16 (new):

The router sub-base of claim 12, in which the thickness of the pad is sufficient to position a distal end of a router bit secured to the router collet to reside approximately ten one-thousandths of an inch from a flat surface when the offset router to which the pad is attached is placed on the flat surface.

Claim 17 (new):

The router sub-base of claim 12, in which the pad is approximately eight tenths of one inch thick.

Claim 18 (new):

A method of cutting a plug or other projection using the router sub-base of claim 11, comprising the steps of:

attaching the sub-base to a router having a collet using suitable means,

attaching a suitable cutting bit to the collet,

setting the router on a substantially flat workpiece having a plug or other projection situated therein, the plug or other projection having an end extending therefrom,

adjusting the cutting bit of the router,

turning on the router,

moving the router with sub-base across the substantially flat workpiece, keeping the lower face of the sub-base against the flat workpiece, so that the cutting bit of the router moves to, and cuts through, the projecting end of the plug or other projection.

Claim 19 (new):

The method of cutting a plug or other projection of claim 18, further comprising the step of moving the router and sub-base over the end of the cut plug or other projection, so that the remaining end of the plug or other projection extending from the flat surface after the plug or projection is cut moves through the channel formed in the lower face of the sub-base.

Claim 20 (new):

A method for creating custom wooden pieces for special applications using the router sub-base of claim 12, comprising the steps of:

attaching the sub-base to an offset router having a collet using suitable means,

attaching a suitable cutting bit to the collet of the offset router,

setting the offset router on a flat surface of a workpiece,

adjusting the cutting bit of the offset router so that the cutting end of the cutting bit is approximately equal in height to the lower surface of the sub-base,

turning on the router,

moving the router freehand so that the bit moves, side to side and generally forward in a series of arcs, to and through a portion of the workpiece using the flat surface of the workpiece as a guide.